

SPIN

Precession module

SPIN is a “plug & play” module located in the optical path between a laser head and a SCAN module.

SPIN induces a precession movement of the laser beam, allowing cutting and drilling at high speed with an adjustable cutting or drilling angle. The SPIN module enables deeper drilling with controlled taper.



Applications

Industry:

- > Microelectronics
- > Micromachining

Medical:

- > Medical Device Manufacturing

Key Features

- > Ideal for cutting and drilling
- > Easy to align
- > Wide field up to 20 mm x 20 mm
- > Patent pending technology

Specifications

SPIN

Focal Length	50 mm	100 mm	
Min Kerf Size (M ² = 1,1, 1.030 nm, Scan 20)	40 μm	60 μm	
Scanning Field	7 x 7 mm ²	25 x 25 mm ²	
Conicity Compensation (attack angle)	4 to 8°	2 to 4°	
Appropriate Material Thicknesses Without Refocusing	100 to 300 μm	200 to 600 μm	
Working Distance	60 mm	110 mm	
Hole or Trench Minimum	90 μm	60 μm	40 μm
Hole or Trench Maximum	1000 μm	500 μm	200 μm
Rotation	30,000 rpm		
Available Wavelengths	343 nm (upon request) - 515 nm - 1030 nm		

These specifications can change depending on the scan used with this module.

Utilities

Dimensions	37,6 x 29,3 x 17,5 cm
Power Supply	24 V – 2 A (5 A peak)
Interface	Ethernet - GigE RJ45

Compatibility



Satsuma



Tangor